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## AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

- 1. (ORIGINAL) A pharmaceutical composition comprising a beta-blocker and an adenosine  $A_1$  receptor antagonist (AA<sub>1</sub>RA).
- 2. (ORIGINAL) The composition of Claim 1, wherein said beta-blocker is selected from the group consisting of acebutolol hydrochloride, atenolol, betaxolol hydrochloride, bisoprolol fumarate, carteolol hydrochloride, esmolol hydrochloride, metoprolol, metoprolol tartrate, nadolol, penbutolol sulfate, pindolol, propranolol hydrochloride, succinate, and timolol maleate, or a pharmaceutically acceptable salt, prodrug, ester, or amide thereof.
- 3. (ORIGINAL) A pharmaceutical composition comprising an angiotensin converting enzyme (ACE) inhibitor and an adenosine A<sub>1</sub> receptor antagonist (AA<sub>1</sub>RA).
- 4. (ORIGINAL) A pharmaceutical composition comprising an angiotensin  $\Pi$  receptor blocker (ARB) and an adenosine  $A_1$  receptor antagonist (AA<sub>1</sub>RA).
- 5. (ORIGINAL) A pharmaceutical composition comprising an angiotensin converting enzyme (ACE) inhibitor, an angiotensin II receptor blocker (ARB), and an adenosine A<sub>1</sub> receptor antagonist (AA<sub>1</sub>RA).
- 6. (ORIGINAL) The composition of Claim 3, wherein said ACE inhibitor is selected from the group consisting of lisinopril, enalapril, quinapril, ramipril, benazepril, captopril, fosinopril, moexipril, trandolapril, and perindopril, or a pharmaceutically acceptable salt, prodrug, ester, or amide thereof.
- 7. (ORIGINAL) The composition of Claims 4, wherein said ARB is selected from the group consisting of losartan, irbesartan, candesartan, telmisartan, eposartan, and valsartan.
- 8. (CURRENTLY AMENDED) The composition of any one of Claims 1, 3, or 4, wherein said AA<sub>1</sub>RA is a xanthine-derivative compound of Formula I or a pharmaceutically acceptable salt thereof,

10/785,446

Filed

February 23, 2004

$$(I) \qquad \underbrace{\overset{X_2}{\underset{X_1}{\bigvee}}\overset{R_3}{\underset{R_2}{\bigvee}}}_{X_1} \underbrace{\overset{X_2}{\underset{N}{\bigvee}}\overset{R_3}{\underset{N}{\bigvee}}}_{X_2} \underbrace{\overset{R_3}{\underset{N}{\bigvee}}}_{N} Q$$

wherein

each of X<sub>1</sub> and X<sub>2</sub> independently represents oxygen or sulfur;

Q represents:

$$-Y = \begin{pmatrix} (CH_2)_n \\ -Y = \begin{pmatrix} (CH_2)_n \\ R_5 \end{pmatrix}, \text{ or } \begin{pmatrix} (CH_2)_n \\ -Y = (CH_2)_n \\ -Y = \begin{pmatrix} (CH_2)_n \\ -Y$$

where Y represents a single bond or alkylene having 1 to 4 carbon atoms, n represents 0 or 1;

each of  $R_1$  and  $R_2$  independently represents hydrogen, lower alkyl, allyl, propargyl, or hydroxy-substituted, oxo-substituted or unsubstituted lower alkyl, and  $R_3$  represents hydrogen or lower alkyl, or

 $R_4$  and  $R_5$  are the same or different and each represent hydrogen or hydroxy, and when both  $R_4$  and  $R_5$  are hydrogen, at least one of  $R_1$  and  $R_2$  is hydroxy-substituted or oxo-substituted lower alkyl,

provided that when Q is



then R<sub>1</sub>, R<sub>2</sub> and R<sub>3</sub> are not simultaneously methyl,

or wherein said AA<sub>1</sub>RA is a xanthine epoxide-derivative compound of Formula II or Formula III, or a pharmaceutically acceptable salt thereof,

(II) 
$$R_6$$
  $N$   $N$   $N$   $(CH_2)_n$   $R_7$   $(CH_2)_n$   $R_8$   $R_9$   $R$ 

wherein  $R_6$  and  $R_7$  are the same or different, and can be hydrogen or an alkyl group of 1-4 carbons,  $R_8$  is either oxygen or  $(CH_2)_{1-4}$ , and n=0-4.

10/785,446

Filed

February 23, 2004

9. (ORIGINAL) The composition of Claim 8, wherein said AA<sub>1</sub>RA is selected from the group consisting of 8-(noradamantan-3-yl)-1,3-dipropylxanthine; 1,3-Diallyl-8-(3-noradamantyl)xanthine, 3-allyl-8-(3-noradamantyl)-1-propargylxanthine, 8-(trans-9-hydroxy-3-tricyclo[3.3.1.0<sup>3,7</sup>]nonyl)-1,3-dipropylxanthine, 8-(cis-9-hydroxy-3-tricyclo[3.3.1.0<sup>3,7</sup>]nonyl)-1,3-dipropylxanthine, 8-(trans-9-hydroxy-3-tricyclo[3.3.1.0<sup>3,7</sup>]nonyl)-1-(2-oxopropyl)-3-propylxanthine, 1-(2-hydroxypropyl)-8-(trans-9-hydroxy-3-tricyclo[3.3.1.0<sup>3,7</sup>]nonyl)-3-

propylxanthine,

or a pharmaceutically acceptable salt thereof.

- 10. (ORIGINAL) A method of treating cardiovascular disease comprising identifying a patient in need of such treatment, and administering a pharmaceutical composition of Claim 1 to said patient.
- 11. (ORIGINAL) The method of Claim 10, wherein said cardiovascular disease is congestive heart failure, hypertension, asymptomatic left ventricular dysfunction, or coronary artery disease.
- 12. (ORIGINAL) The method of Claim 10, wherein said patient is in need of after-load reduction.
- 13. (ORIGINAL) The method of Claim 10, wherein said patient requires additional diuretic therapy or is refractory to diuretic therapy.
- 14. (ORIGINAL) A method of treating cardiovascular disease or renal disease comprising identifying a patient in need of such treatment, and administering a pharmaceutical composition of any one of Claims 3-5 to said patient.
- 15. (ORIGINAL) The method of Claim 14, wherein said patient suffers from cardiovascular disease selected from congestive heart failure, hypertension, asymptomatic left ventricular dysfunction, or acute myocardial infarction, or wherein said patient is in need of afterload reduction, or wherein said patient is refractory to diuretic therapy.

10/785,446

Filed

February 23, 2004

16. (ORIGINAL) The method of Claim 14, wherein said renal disease is renal hypertrophy, renal hyperplasia, microproteinuria, proteinuria, diabetic nephropathy, contrast-mediated nephropathy, toxin-induced renal injury, or oxygen free-radical mediated nephropathy.

- 17. (ORIGINAL) A method of treating alkalosis comprising identifying a patient in need thereof and administering an adenosine  $A_1$  receptor antagonist (AA<sub>1</sub>RA) to said patient.
- 18. (ORIGINAL) The method of Claim 17, wherein said alkalosis is metabolic alkalosis or respiratory alkalosis.
- 19. (ORIGINAL) The method of Claim 17, wherein said patient has edema, is on diuretic therapy, or suffers from acid loss through the patient's upper gastrointestinal tract.
- 20. (CURRENTLY AMENDED) The method of Claim 17, wherein said AA<sub>1</sub>RA is a xanthine-derivative compound of Formula I or a pharmaceutically acceptable salt thereof.

$$(I) \qquad \underbrace{\overset{X_2}{\underset{X_1}{\bigvee}}\overset{R_3}{\underset{R_2}{\bigvee}}}_{X_2} \qquad \underbrace{\overset{X_2}{\underset{X_1}{\bigvee}}\overset{R_3}{\underset{R_2}{\bigvee}}}_{X_1} \qquad \underbrace{\overset{X_2}{\underset{R_2}{\bigvee}}}_{N} \qquad \underbrace{$$

wherein

each of  $X_1$  and  $X_2$  independently represents oxygen or sulfur;

Q represents:

$$-Y = \begin{pmatrix} (CH_2)_n \\ -Y = \begin{pmatrix} (CH_2)_n \\ R_5 \end{pmatrix}, \text{ or } \begin{pmatrix} (CH_2)_n \\ -Y = (CH_2)_n \\ -Y = \begin{pmatrix} (CH_2)_n \\ -Y$$

where Y represents a single bond or alkylene having 1 to 4 carbon atoms, n represents 0 or 1;

each of  $R_1$  and  $R_2$  independently represents hydrogen, lower alkyl, allyl, propargyl, or hydroxy-substituted, oxo-substituted or unsubstituted lower alkyl, and  $R_3$  represents hydrogen or lower alkyl, or

 $R_4$  and  $R_5$  are the same or different and each represent hydrogen or hydroxy, and when both  $R_4$  and  $R_5$  are hydrogen, at least one of  $R_1$  and  $R_2$  is hydroxy-substituted or oxo-substituted lower alkyl,

provided that when Q is

10/785,446

**Filed** 

February 23, 2004



then R<sub>1</sub>, R<sub>2</sub> and R<sub>3</sub> are not simultaneously methyl,

or wherein said AA<sub>1</sub>RA is a xanthine epoxide-derivative compound of Formula II or Formula III, or a pharmaceutically acceptable salt thereof,

wherein  $R_6$  and  $R_7$  are the same or different, and can be hydrogen or an alkyl group of 1-4 carbons,  $R_8$  is either oxygen or  $(CH_2)_{1-4}$ , and n=0-4.

- 21. (ORIGINAL) A method of treating diabetic nephropathy comprising identifying a patient in need thereof and administering an adenosine  $A_1$  receptor antagonist  $(AA_1RA)$  to said patient.
- 22. (ORIGINAL) The method of Claim 21, wherein said patient is prediabetic or is in early stage diabetes.
- 23. (CURRENTLY AMENDED) The method of Claim 21, wherein said AA<sub>1</sub>RA is a xanthine-derivative compound of Formula I or a pharmaceutically acceptable salt thereof,

$$(I) \qquad \xrightarrow[R_1]{X_2} \xrightarrow[N]{R_3} \xrightarrow[N]{R_1} \xrightarrow[N]{X_2} \xrightarrow[N]{R_3}$$

wherein

each of X<sub>1</sub> and X<sub>2</sub> independently represents oxygen or sulfur;

Q represents:

$$-Y = \begin{pmatrix} (CH_2)_n \\ -Y = \begin{pmatrix} (CH_2)_n \\ R_5 \end{pmatrix}, \text{ or } \begin{pmatrix} (CH_2)_n \\ -Y = \begin{pmatrix} (CH_2)_n \\$$

where Y represents a single bond or alkylene having 1 to 4 carbon atoms, n represents 0 or 1;

10/785,446

**Filed** 

February 23, 2004

each of  $R_1$  and  $R_2$  independently represents hydrogen, lower alkyl, allyl, propargyl, or hydroxy-substituted, oxo-substituted or unsubstituted lower alkyl, and  $R_3$  represents hydrogen or lower alkyl, or

 $R_4$  and  $R_5$  are the same or different and each represent hydrogen or hydroxy, and when both  $R_4$  and  $R_5$  are hydrogen, at least one of  $R_1$  and  $R_2$  is hydroxy-substituted or oxo-substituted lower alkyl,

provided that when Q is

then R<sub>1</sub>, R<sub>2</sub> and R<sub>3</sub> are not simultaneously methyl,

or wherein said AA<sub>1</sub>RA is a xanthine epoxide-derivative compound of Formula II or Formula III, or a pharmaceutically acceptable salt thereof,

wherein  $R_6$  and  $R_7$  are the same or different, and can be hydrogen or an alkyl group of 1-4 carbons,  $R_8$  is either oxygen or  $(CH_2)_{1-4}$ , and n=0-4.

- 24. (ORIGINAL) The method of Claim 21, further comprising administering a compound selected from the group consisting of a protein kinase C inhibitor, an inhibitor of tissue proliferation, an antioxidant, an inhibitor of glycosylation, and an endothelin B receptor inhibitor.
- 25. (ORIGINAL) The method of Claim 21, wherein said treating comprises preventing, reversing, or ameliorating a disease selected from the group consisting of renal hypertrophy, renal hyperplasia, microproteinuria, and proteinuria.